

Recombinant Rat PCSK9 Protein

Catalog No.: RP01685 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Rat	298296	P59996

Tags

C-6His

Synonyms

PC9; Nrc1; NARC-1; PCSK9

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
72.17 kDa	19, 70-75 kDa

Endotoxin

<0.1EU/μg


Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Proprotein convertase subtilisin/kexin type 9 (PCSK9), also known as NARC1 (neural apoptosis regulated convertase), which is a newly identified human secretory subtilase belonging to the proteinase K subfamily of the secretory subtilase family. PCSK9 protein is an enzyme which in humans is encoded by the PCSK9 gene with orthologs found across many species. It is expressed in neuroepithelioma, colon carcinoma, hepatic and pancreatic cell lines, and in Schwann cells. PCSK9 protein is highly expressed in the liver and regulates low density lipoprotein receptor (LDLR) protein levels. Inhibition of PCSK9 protein function is currently being explored as a means of lowering cholesterol levels. Thereby, PCSK9 protein is regarded as a new strategy to treat hypercholesterolemia. PCSK9 protein contributes to cholesterol homeostasis and may have a role in the differentiation of cortical neurons.

Basic Information

Description

Recombinant Rat PCSK9 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln 31 - Gln 691) of rat PCSK9 (Accession #NP_954862.2) fused with and a 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Mouse LDLR (Catalog: RP01504) at 5 μg/mL (100 μL/well) can bind Rat PCSK9 (Catalog: RP01685) with a linear range of 4.88-353.16 ng/mL.

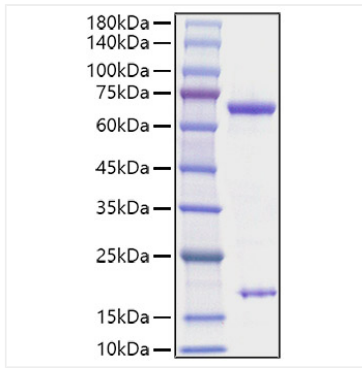
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Rat PCSK9 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 67 kDa and 19 kDa.